

**Mental Health, Developmental Disabilities and
Substance Abuse Related Admissions in Community
Hospital Emergency Departments**

**Annual Report
State Fiscal Year 2008-09**

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Quality
NC DMH/DD/SAS

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*Mental Health, Developmental Disabilities, and Substance Abuse Related Admissions in Community
Emergency Departments, Annual Report, SFY 2008-09*

Report Summary:

The report responds to General Statute 112C-147.1.1 Section 10.49(r) and reports on patterns of admissions of individuals with mental health, substance abuse and developmental disability diagnoses seen in community hospital emergency departments during fiscal year 2008-09. Graphs and tables depicting the patterns of emergency department admissions for the 4th quarter of 2008-09 are given in Appendix A. Emergency Department data for the entire fiscal year 2008-09 allows for the estimation of both primary and secondary diagnoses admissions for behavioral health (mental health and substance abuse) and /or developmental disabilities at both State and County levels.

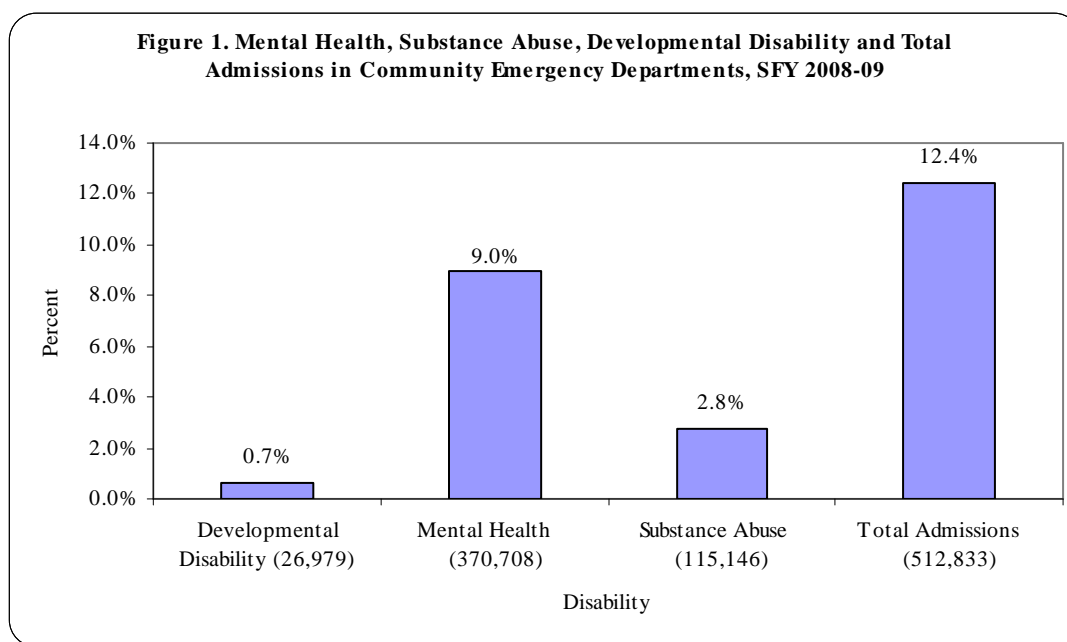
- During state fiscal year 2008-09 persons seen in community hospital emergency departments in North Carolina include 370,708 individuals with mental health diagnoses, 115,146 individuals with substance abuse diagnoses and 26,979 individuals with developmental disability diagnoses. These individuals included those who had behavioral health or developmental disability as ‘primary’ diagnoses as well as those who had these three disabilities among ‘any listed’ diagnoses. They represented 12.4% of all patients seen in emergency departments during the year.
- The total admissions for individuals with any of the three diagnoses were 12.4% in SFY 2008-09 compared to 11.3% in 2007-08. Accounting for the changes in the list of ICD-9 codes used to identify an individual with a developmental disability diagnosis from SFY08 to SFY09, the increase translates to an additional 43,000 individuals with a behavioral health or developmental diagnosis seen in emergency departments of community hospitals through the course of the year. Similar increase was seen in all emergency department admissions and not just in behavioral health and developmental disability admissions.
- When *only* those individuals with behavioral health or developmental disability as a ‘primary’ diagnosis are included, there were 87,263 individuals with mental health diagnoses, 31,156 individuals with substance abuse diagnoses and 2,844 individuals with developmental disabilities diagnoses seen in local community hospital emergency departments during this time. These individuals accounted for 2.9% of all emergency department admissions.
- Most of those seen were adults with mental health (344,802) and substance abuse (112,582) diagnoses. However, the numbers of children and adolescents were not negligible. A total of 25,906 children with mental health diagnoses and 2,564 children with substance abuse diagnoses were seen in local community hospital emergency departments. Also, 14,542 adults and 12,437 children with developmental disability diagnoses were seen in emergency departments during the year.
- More women (233,293) than men (137,415) with mental health diagnoses sought care in emergency departments, whereas the proportion of men (75,682) admitted with substance abuse diagnosis were almost double that of women (39,464). Among those with developmental disabilities more men (15,398) were seen compared to women (11,581).

- Statewide, 399 persons with mental health diagnoses were admitted to an emergency department for every 10,000 persons in the population during the fiscal year; the statewide rate for persons with substance abuse diagnoses was 124 per 10,000 persons; the statewide rate for persons with developmental disability diagnoses was 29 per 10,000 persons.
- The rate of mental health and substance abuse admissions varied widely among the 24 LME catchment areas. Western Highlands LME continues to report the highest rate for emergency department admissions for individuals with a mental health diagnosis (692.6 per 10,000) while Southeastern Regional LME reported the highest rate (196.2 per 10,000) of admissions with a substance abuse diagnosis.
- Guilford Center for Behavioral Health and Developmental Disabilities continues to have the lowest rate of admissions (223.6 per 10,000 population) for individuals with a mental health diagnoses and Wake County Human Services (84.1 per 10,000 population) had the lowest rates for admissions with substance abuse diagnoses for the year.
- Guilford Center also had the lowest rate of developmental disability admissions (10.7 per 10,000 population), while Western Highlands had the highest rate at 47.1 per 10,000 population.
- The rate of emergency department admissions by county ranged from 42.3 per 10,000 population in Lenoir County to 405.6 per 10,000 population in McDowell County for admissions with behavioral health and/or developmental disability as a primary diagnosis. McDowell had the highest rate of admissions (1216.4 per 10,000) with behavioral health and/or developmental disability among 'any listed' diagnosis. Gates County had the lowest rate at 119.8 per 10,000 population.
- Information on where people go after being discharged (disposition) from an emergency department can often be misleading or misclassified. However, of the 488,610 people for whom this information was available, 2.6% were admitted to the psychiatric unit of the hospital and 5.8% were transferred to other institutions.

The Mental Health, Developmental Disabilities, and Substance Abuse Related Admissions in Community Hospital Emergency Departments Report provides information on the emergency department admissions for individuals with mental health, substance abuse and developmental disability diagnoses. The document is in response to the General Statute 112C-147.1.1 Section 10.49(r). This report, the eighth in the series, presents information for fiscal year 2008-09 as well as for the 4th quarter of 2008-09.

The emergency department admissions information gathered through the North Carolina Disease Event Tracking and Epidemiologic Collection Tool (NC DETECT) is received by the Division of Mental Health, Developmental Disabilities and Substance Abuse Services (DMH/DD/SAS) through a data sharing agreement with the North Carolina Division of Public Health. The data are provided to the DMH/DD/SAS as an aggregate file, which includes the total number of admissions by disability status, age group and gender by LME and total admissions by county. The individuals that are represented in the report are those who had a mental health, substance abuse or developmental disability ICD-9¹ code indicating their diagnosis. Detailed explanation of the data source is available in Appendix C.

Emergency Department Admissions

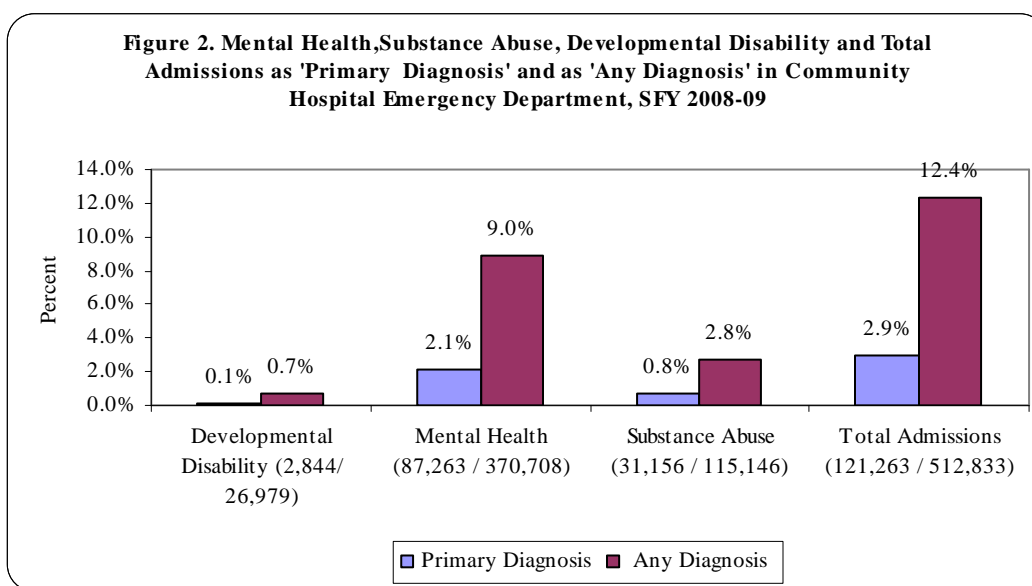


The data presented above (Figure 1) show the proportion of individuals who were admitted to a community hospital emergency department with a mental health, substance abuse or developmental

¹ The **International Statistical Classification of Diseases and Related Health Problems** (most commonly known by the abbreviation **ICD**) provides codes to classify [diseases](#) and a wide variety of signs, symptoms, abnormal findings, complaints, social circumstances and external causes of injury or disease. Every health condition can be assigned to a unique category and given a code, up to six characters long. Such categories can include a set of similar diseases.

disability as any of the listed diagnoses. The percentage is calculated as a proportion of the total admissions (4,132,897) for all causes to emergency departments during fiscal year 2008-09.

The total number of admissions for individuals with a mental health diagnosis during fiscal year 2008 was 370,708. During the same time frame, 115,146 individuals with a substance abuse diagnosis and 26,979 individuals with a developmental disability diagnosis were seen in community hospital emergency departments. The pattern of admissions for the year was consistent with the pattern displayed over the previous quarters of the fiscal year. Of all emergency department admissions, 9% and 2.8% were individuals who had a mental health or substance abuse diagnosis respectively. In comparison, the proportion of individuals with developmental disability diagnosis was 0.7 %. The total admissions for individuals with any of the three diagnoses for the year were 12.4% compared to 11.3% in 2007-08. Accounting for the changes in the list of ICD-9 codes used to identify an individual with a developmental disability diagnosis from SFY08 to SFY09, the increase translates to an additional 43,000 individuals with a behavioral health and developmental diagnosis seen in emergency department of community hospitals through the course of the year.

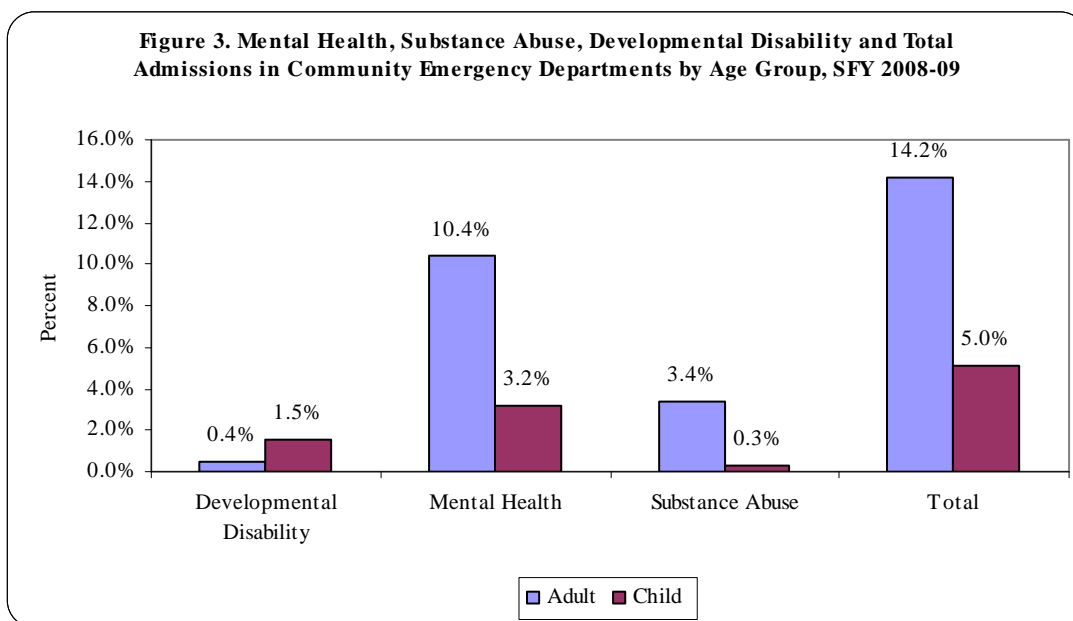


Source: NC DETECT, SFY 2008-09

Figure 2 presents a comparison of individuals who had mental health, substance abuse or developmental disability listed as the primary diagnosis for the emergency department visit with those who had these diagnoses as any of the listed diagnoses. The graph demonstrates that the percentage of individuals who had a primary behavioral health or developmental disability diagnosis represented only a small percentage of the admissions that had the same ICD-9 codes among ‘any listed’ diagnoses. When only the primary diagnosis is considered, 2,844 persons with a developmental disability, 87,263 persons with a mental health disability and 31,156 persons with a substance abuse disability were admitted to a

community hospital emergency department in the State. These individuals, with a primary diagnosis, represent only 2.9% of all emergency department admissions during the quarter, compared to the 12.4% of individuals where behavioral health and /or developmental disability were either a primary or any listed diagnosis.

Figure 3 shows the percentage of adult and child admissions for each disability to local emergency departments where mental health, substance abuse and developmental disability were among any of the listed diagnoses.



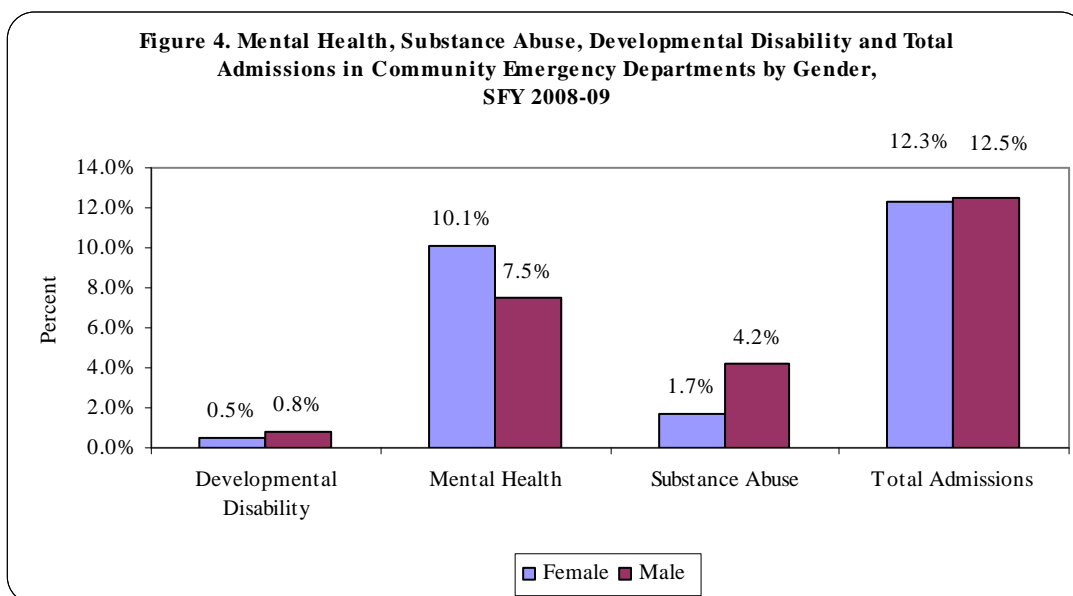
Source: NC DETECT, SFY 2008-09

Note: Percentages are calculated of all adult and all child admissions separately.

Of all adult admissions that were made in community hospital emergency departments, 0.4 % had a developmental disability diagnosis, 10.4% a mental health diagnosis and 3.4% a substance abuse diagnosis. 14.2% of all adult admissions had behavioral health as a primary diagnosis or any listed diagnosis. Comparatively, only 5% of all child admissions (17 years and under) in community hospital emergency departments had a behavioral health or developmental disability diagnosis. For children, admissions with a substance abuse diagnosis were the lowest with 2,564 admissions, followed by developmental disability with 12,437 and mental health with 25,906 admissions.

Figure 4 shows the distribution of males and females who had a mental health, substance abuse or developmental disability diagnosis seeking care through local emergency departments. The percentages are calculated as proportions of all gender specific admissions emergency department admissions. There was a higher number of females who had a mental health diagnosis (233,293) compared to males (137,415) seeking care, whereas the number of men (75,682) admitted with a substance abuse diagnosis

was almost double that of women (39,464). There were also a higher number of males (15,398) with developmental disability admitted compared to females (11,581).



Source: NC DETECT, SFY 2008-09

Note: Percentages are calculated as a proportion of all gender specific emergency department admissions

Disposition of a consumer refers to the location to which a consumer was discharged from the emergency department. Table 4 shows the disposition of individuals with mental health, substance abuse or developmental disability diagnoses statewide. Disposition status may often not be appropriately captured or may be incomplete in the emergency department data. This information is only available on 488,610 of the 512,833 individuals with a mental health, substance abuse or developmental disability diagnosis seen in a community hospital emergency department during fiscal year 2008-09. Of the individuals on whom information was available 2.6% were admitted to a psychiatric unit of the hospital and 5.8% were transferred to another institution. This could have been a jail, general hospital or any other kind of institution or even a home care facility. 6,932 individuals left the hospital against medical advice and 3,441 left without receiving medical advice from the emergency department.

| Table 1. Disposition of Individuals with Mental Health, Substance Abuse and/or Developmental Disabilities Diagnosis Seen within a Local Emergency Department, SFY 2008-09 | | | | | | | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------|---------------|-------------|-------------------------|--------------|---------------------------|----------------|---------------|------------------|----------------------|------------------------|
| Disability | Admitted | ICU | Psych | Died | Dis- charged | AMA | Without Advice | Observe | Other* | Transfer* | Not Known | Grand Total |
| Dev. Disability | 7,071 | 140 | 391 | 38 | 16,900 | 130 | 117 | 143 | 72 | 917 | 24 | 25,943 |
| Mental Health | 102,703 | 1,531 | 8,626 | 540 | 206,654 | 4,778 | 2,481 | 2,703 | 1,500 | 21,112 | 634 | 353,262 |
| Substance Abuse | 35,242 | 800 | 3,942 | 112 | 57,826 | 2,024 | 843 | 973 | 854 | 6,668 | 121 | 109,405 |
| Total | 145,016 | 2,471 | 12,959 | 690 | 281,380 | 6,932 | 3,441 | 3,819 | 2,426 | 28,697 | 779 | 488,610 |

Source: NC DETECT, SFY 08-09;

*Note- Disposition 'Admitted' includes hospital floor, isolation bed, CCU, operating room or diagnostic unit; 'Transferred' includes- transfer to prison, jail, general hospital, another type of institution or to home care ; 'Other' category is not clearly defined.

Table 2, shown below, presents the counts and rates of admission in local emergency departments for individuals with mental health, substance abuse or developmental disability diagnoses (any listed diagnosis) by LME during SFY 2008-09. Rates allow comparison of admissions across Local Management Entities (LMEs), which provide services to counties of varied population sizes and composition. The statewide rate of admissions per 10,000 population for individuals with mental health diagnoses was 399.0 persons, 124.0 per 10,000 for substance abuse and 29.0 per 10,000 for developmental disability for fiscal year 2008-09.

Consistent with data from the previous quarters, Western Highlands LME had the highest rate of admission (692.6 per 10,000) for individuals with mental health diagnoses, followed closely by Mental Health Partners at 608.5 per 10,000 population. Southeastern Regional LME had the highest rate (196.2) of admissions with substance abuse diagnoses for the year. Guilford LME had the lowest rate (223.6 per 10,000 population) of admissions for people with mental health diagnoses and Wake LME had the lowest rate (84.1 per 10,000) of admissions for individuals with substance abuse diagnoses during the quarter.

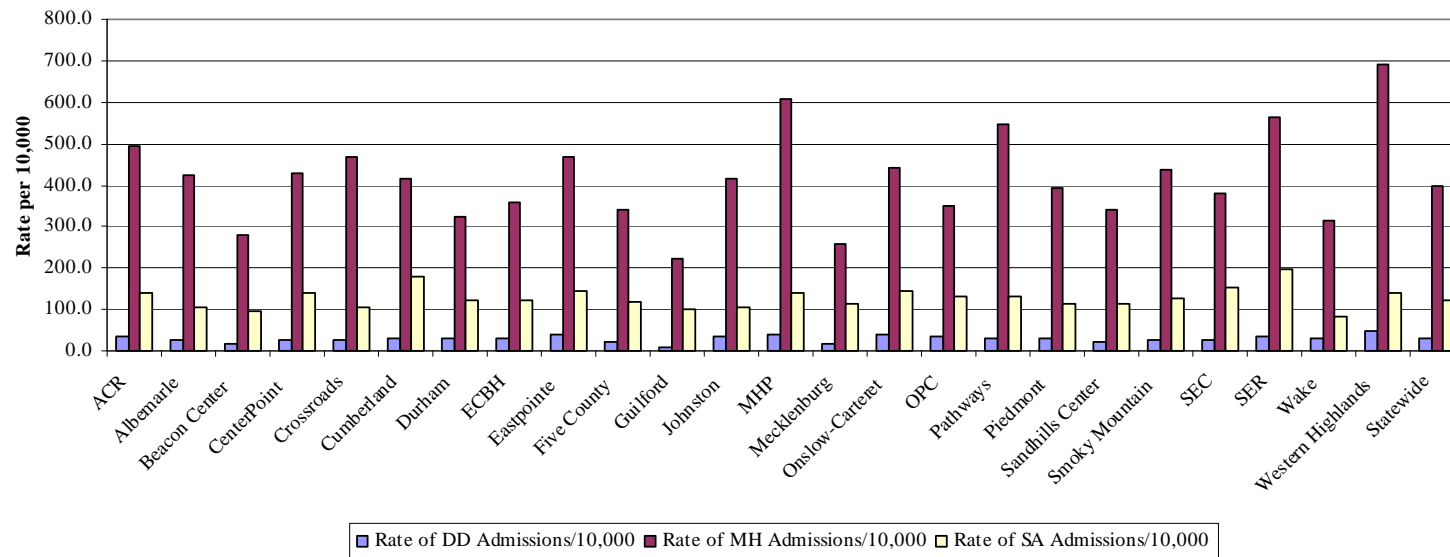
**Table 2. Behavioral Health and Developmental Disability Admissions in Community Hospital Emergency Departments
by Local Management Entity, SFY 2008-09**

| LME Name | Developmental Disability (n) | Rate of DD Admissions/10,000 | Mental Health (n) | Rate of MH Admissions/10,000 | Substance Abuse (n) | Rate of SA Admissions/10,000 |
|-------------------------------|-----------------------------------------|-----------------------------------------|----------------------------------|-----------------------------------------|--------------------------------|-----------------------------------------|
| Alamance Caswell Rockingham | 964 | 37.0 | 12,873 | 494.6 | 3,692 | 141.8 |
| Albemarle | 463 | 25.0 | 7,819 | 422.8 | 1,979 | 107.0 |
| Beacon Center | 474 | 19.3 | 6,812 | 278.1 | 2,392 | 97.6 |
| CenterPoint | 1221 | 28.3 | 18,559 | 429.5 | 6,131 | 141.9 |
| Crossroads | 660 | 24.7 | 12,435 | 465.9 | 2,848 | 106.7 |
| Cumberland | 1031 | 32.8 | 12,992 | 413.1 | 5,604 | 178.2 |
| Durham | 765 | 29.5 | 8,405 | 324.0 | 3,131 | 120.7 |
| East Carolina Behavior Health | 1,241 | 31.1 | 14,369 | 360.1 | 4,887 | 122.5 |
| Eastpointe | 1,178 | 40.3 | 13,725 | 469.9 | 4,236 | 145.0 |
| Five County | 501 | 21.5 | 7,897 | 339.5 | 2,785 | 119.7 |
| Guilford | 504 | 10.7 | 10,485 | 223.6 | 4,777 | 101.9 |
| Johnston | 597 | 36.7 | 6,720 | 413.3 | 1,729 | 106.3 |
| Mental Health Partners | 951 | 39.0 | 14,843 | 608.5 | 3,456 | 141.7 |
| Mecklenburg | 1,730 | 19.4 | 23,037 | 258.1 | 10,147 | 113.7 |
| Onslow-Carteret | 891 | 37.9 | 10,342 | 439.9 | 3,435 | 146.1 |
| Orange-Person-Chatham | 751 | 33.0 | 7,949 | 349.3 | 2,962 | 130.2 |
| Pathways | 1,176 | 31.3 | 20,480 | 545.1 | 4,947 | 131.7 |
| Piedmont | 2,220 | 30.9 | 28,272 | 394.0 | 8,095 | 112.8 |
| Sandhills Center | 1,079 | 20.1 | 18,242 | 340.0 | 6,033 | 112.4 |
| Smoky Mountain | 1,417 | 27.3 | 22,700 | 437.6 | 6,504 | 125.4 |
| Southeastern Center | 967 | 27.6 | 13,315 | 379.5 | 5,428 | 154.7 |
| Southeastern Regional | 930 | 36.6 | 14,349 | 564.6 | 4,986 | 196.2 |
| Wake | 2,762 | 31.8 | 27,329 | 315.1 | 7,293 | 84.1 |
| Western Highlands | 2,365 | 47.1 | 34,774 | 692.6 | 7,064 | 140.7 |
| Statewide | 26,838 | 29.0 | 368,723 | 399.0 | 114,541 | 124.0 |

Source: NC DETECT, SFY 2008-09

Note. LME level totals may differ from statewide estimates due to incompleteness of county level information.

Figure 5. Rate of Behavioral Health and Developmental Disabilities Admissions in Community Hospital Emergency Departments by Local Management Entities, SFY 2008-09



Source: NC DETECT, SFY 2008-09

Abbreviations ACR- Alamance-Caswell-Rockingham; MHP-Mental Health Partners, ECBH- East Carolina Behavioral Health, OPC-Orange -Person -Chatham, SEC- Southeastern Center, SER-Southeastern Regional; WH- Western Highlands

Figure 5 is a graphical representation of the information presented in Table 1, showing the rate of admissions with mental health, substance abuse and developmental disability diagnoses in emergency departments by Local Management Entity for fiscal year 2008-09.

Table 3 presents the number of admissions for individuals with mental health, substance abuse and developmental disability diagnoses by age group (adult and child) for each of the 24 Local Management Entities. The table also gives the counts for emergency department admissions *for all causes* by LME catchment area. The total number of emergency department admissions by LME came to 4,115,940² during the fiscal year.

² LME admissions vary from the state total admissions due to discrepancies regarding information of county of residence. State total ED admissions for Behavioral Health and Developmental Disabilities were 4,115,940 for the year.

Table 3. Behavioral Health and Developmental Disability Admissions in Community Emergency Department by Age Group and Local Management Entity, SFY 2008-09

| LME | Developmental Disability | | | Mental Health | | | Substance Abuse | | | All ED Admissions |
|---------------------------------|--------------------------|---------------|---------------|----------------|---------------|----------------|-----------------|--------------|----------------|-------------------|
| | Adult | Child | Total | Adult | Child | Total | Adult | Child | Total | |
| Alamance Caswell Rockingham | 448 | 516 | 964 | 11,985 | 888 | 12,873 | 3,622 | 70 | 3,692 | 134,243 |
| Albemarle | 274 | 189 | 463 | 7,293 | 526 | 7,819 | 1,880 | 99 | 1,979 | 77,982 |
| Beacon Center | 216 | 258 | 474 | 6,265 | 547 | 6,812 | 2,319 | 73 | 2,392 | 136,796 |
| CenterPoint | 691 | 530 | 1,221 | 17,362 | 1,197 | 18,559 | 5,987 | 144 | 6,131 | 188,712 |
| Crossroads | 370 | 290 | 660 | 11,692 | 743 | 12,435 | 2,781 | 67 | 2,848 | 140,073 |
| Cumberland | 498 | 533 | 1,031 | 11,643 | 1,349 | 12,992 | 5,516 | 88 | 5,604 | 126,448 |
| Durham | 430 | 335 | 765 | 7,809 | 596 | 8,405 | 3,053 | 78 | 3,131 | 111,498 |
| East Carolina Behavioral Health | 603 | 638 | 1,241 | 13,092 | 1,277 | 14,369 | 4,792 | 95 | 4,887 | 194,723 |
| Eastpointe | 574 | 604 | 1,178 | 12,570 | 1,155 | 13,725 | 4,109 | 127 | 4,236 | 151,096 |
| Five County | 278 | 223 | 501 | 7,473 | 424 | 7,897 | 2,740 | 45 | 2,785 | 129,216 |
| Guilford | 305 | 199 | 504 | 9,963 | 522 | 10,485 | 4,695 | 82 | 4,777 | 202,054 |
| Johnston | 316 | 281 | 597 | 6,168 | 552 | 6,720 | 1,691 | 38 | 1,729 | 74,026 |
| Mental Health Partners | 438 | 513 | 951 | 13,823 | 1,020 | 14,843 | 3,371 | 85 | 3,456 | 125,004 |
| Mecklenburg | 1,219 | 511 | 1,730 | 21,950 | 1,087 | 23,037 | 9,982 | 165 | 10,147 | 313,434 |
| Onslow-Carteret | 481 | 410 | 891 | 9,463 | 879 | 10,342 | 3,344 | 91 | 3,435 | 87,022 |
| Orange-Person-Chatham | 402 | 349 | 751 | 7,371 | 578 | 7,949 | 2,883 | 79 | 2,962 | 70,604 |
| Pathways | 562 | 614 | 1,176 | 18,846 | 1,634 | 20,480 | 4,830 | 117 | 4,947 | 206,023 |
| Piedmont | 1,080 | 1,140 | 2,220 | 25,973 | 2,299 | 28,272 | 7,846 | 249 | 8,095 | 308,842 |
| Sandhills Center | 510 | 569 | 1,079 | 16,934 | 1,308 | 18,242 | 5,894 | 139 | 6,033 | 268,681 |
| Smoky Mountain | 760 | 657 | 1,417 | 21,369 | 1,331 | 22,700 | 6,376 | 128 | 6,504 | 251,970 |
| Southeastern Center | 543 | 424 | 967 | 12,457 | 858 | 13,315 | 5,342 | 86 | 5,428 | 146,948 |
| Southeastern Regional | 422 | 508 | 930 | 13,128 | 1,221 | 14,349 | 4,903 | 83 | 4,986 | 169,323 |
| Wake | 1,490 | 1,272 | 2,762 | 25,289 | 2,040 | 27,329 | 7,126 | 167 | 7,293 | 284,329 |
| Western Highlands | 1,547 | 818 | 2,365 | 32,989 | 1,785 | 34,774 | 6,901 | 163 | 7,064 | 216,893 |
| Statewide | 14,457 | 12,381 | 26,838 | 342,907 | 25,816 | 368,723 | 111,983 | 2,558 | 114,541 | 4,115,940 |

Source: NC DETECT, SFY 2008-09.

Note. LME level totals may differ from statewide estimates due to incompleteness of county level information.

Table 4. Mental Health, Substance Abuse and Developmental Disability Admissions in Local Emergency Departments by County, SFY 2008-09

| County | Behavioral Health and DD as 'Any Diagnosis' (n) | Behavioral Health or DD as 'Primary Diagnosis' Only (n) | Rate of BH and /Or DD as 'Any Diagnosis' /10,000 | Rate of BH and /Or DD 'Primary Diagnosis' /10,000 | County | Behavioral Health and DD as 'Any Diagnosis' (n) | Behavioral Health or DD as 'Primary Diagnosis' Only (n) | Rate of BH and /Or DD as 'Any Diagnosis' /10,000 | Rate of BH and /Or DD 'Primary Diagnosis' /10,000 |
|---------------|--------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------|---------------|--------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------|
| Alamance | 9,051 | 2,304 | 623.6 | 158.7 | Jones | 648 | 134 | 624.9 | 129.2 |
| Alexander | 2,071 | 561 | 559.2 | 151.5 | Lee | 2,269 | 1,133 | 394.6 | 197.1 |
| Alleghany | 1,127 | 442 | 1008.5 | 395.5 | Lenoir | 1,888 | 243 | 328.4 | 42.3 |
| Anson | 1,972 | 436 | 783.9 | 173.3 | Lincoln | 5,245 | 862 | 704.9 | 115.9 |
| Ashe | 442 | 178 | 168.0 | 67.6 | Macon | 1,074 | 383 | 241.7 | 86.2 |
| Avery | 670 | 165 | 364.9 | 89.9 | Madison | 1,607 | 476 | 469.4 | 139.0 |
| Beaufort | 2,388 | 544 | 516.2 | 117.6 | Martin | 2,377 | 249 | 1151.4 | 120.6 |
| Bertie | 841 | 272 | 423.8 | 137.1 | McDowell | 2,885 | 962 | 1216.4 | 405.6 |
| Bladen | 1,605 | 421 | 493.6 | 129.5 | Mecklenburg | 31,680 | 7,776 | 354.9 | 87.1 |
| Brunswick | 5,865 | 1,380 | 563.3 | 132.5 | Mitchell | 803 | 237 | 503.9 | 148.7 |
| Buncombe | 23,897 | 8,092 | 1041.6 | 352.7 | Montgomery | 801 | 273 | 288.7 | 98.4 |
| Burke | 6,184 | 1,620 | 698.9 | 183.1 | Moore | 3,311 | 1,253 | 387.3 | 146.6 |
| Cabarrus | 12,549 | 2,469 | 736.0 | 144.8 | Nash | 2,283 | 658 | 243.3 | 70.1 |
| Caldwell | 5,236 | 1,413 | 656.6 | 177.2 | N. Hanover | 9,987 | 3,427 | 513.3 | 176.1 |
| Camden | 364 | 209 | 369.7 | 212.3 | Northampton | 962 | 201 | 453.7 | 94.8 |
| Carteret | 5,643 | 573 | 884.4 | 89.8 | Onslow | 7,195 | 1,278 | 420.1 | 74.6 |
| Caswell | 880 | 206 | 374.5 | 87.7 | Orange | 5,698 | 1,578 | 441.4 | 122.3 |
| Catawba | 10,871 | 2,907 | 699.3 | 187.0 | Pamlico | 685 | 137 | 528.9 | 105.8 |
| Chatham | 1,743 | 588 | 287.9 | 97.1 | Pasquotank | 2,579 | 1,416 | 617.0 | 338.8 |
| Cherokee | 1,352 | 389 | 491.4 | 141.4 | Pender | 1,513 | 504 | 290.2 | 96.7 |
| Chowan | 710 | 247 | 480.9 | 167.3 | Perquimans | 728 | 341 | 558.0 | 261.4 |
| Clay | 383 | 86 | 362.3 | 81.4 | Person | 2,503 | 342 | 659.9 | 90.2 |
| Cleveland | 9,820 | 2,509 | 1011.1 | 258.3 | Pitt | 4,287 | 2,062 | 276.3 | 132.9 |
| Columbus | 3,093 | 443 | 569.8 | 81.6 | Polk | 654 | 216 | 343.5 | 113.4 |
| Craven | 7,730 | 1,481 | 794.1 | 152.1 | Randolph | 6,297 | 1,348 | 448.1 | 95.9 |
| Cumberland | 16,861 | 5,664 | 536.2 | 180.1 | Richmond | 2,390 | 938 | 510.1 | 200.2 |
| Currituck | 698 | 395 | 286.4 | 162.1 | Robeson | 10,740 | 1,935 | 823.6 | 148.4 |

| County | 'Any Diagnosis' (n) | 'Primary Diagnosis' Only (n) | 'Any Admissions' /10,000 | 'Primary Admissions' /10,000 | County | 'Any Diagnosis' (n) | 'Primary Diagnosis' Only (n) | 'Any Admissions' /10,000 | 'Primary Admissions' /10,000 |
|-----------|---------------------------|------------------------------------|--------------------------------|------------------------------------|--------------|---------------------------|------------------------------------|--------------------------------|------------------------------------|
| Dare | 1,412 | 471 | 409.4 | 136.6 | Rockingham | 5,689 | 1,358 | 620.8 | 148.2 |
| Davidson | 7,208 | 1,573 | 457.2 | 99.8 | Rowan | 6,039 | 2,395 | 438.8 | 174.0 |
| Davie | 1,459 | 414 | 352.9 | 100.1 | Rutherford | 5,225 | 1,870 | 830.8 | 297.3 |
| Duplin | 2,190 | 452 | 407.5 | 84.1 | Sampson | 3,924 | 463 | 601.6 | 71.0 |
| Durham | 10,957 | 2,666 | 422.4 | 102.8 | Scotland | 2,682 | 300 | 726.3 | 81.2 |
| Edgecombe | 1,418 | 495 | 276.6 | 96.5 | Stanly | 2,249 | 1,063 | 379.0 | 179.1 |
| Forsyth | 18,925 | 5,839 | 549.6 | 169.6 | Stokes | 2,620 | 650 | 564.6 | 140.1 |
| Franklin | 2,648 | 380 | 459.1 | 65.9 | Surry | 5,912 | 717 | 803.8 | 97.5 |
| Gaston | 9,132 | 4,093 | 447.2 | 200.5 | Swain | 800 | 232 | 567.5 | 164.6 |
| Gates | 145 | 84 | 119.8 | 69.4 | Transylvania | 1,344 | 412 | 431.9 | 132.4 |
| Graham | 415 | 98 | 507.4 | 119.8 | Tyrrell | 82 | 26 | 189.5 | 60.1 |
| Granville | 2,191 | 395 | 388.3 | 70.0 | Union | 6,703 | 1,416 | 348.3 | 73.6 |
| Greene | 567 | 143 | 267.2 | 67.4 | Vance | 1,465 | 195 | 335.8 | 44.7 |
| Guilford | 14,118 | 6,540 | 301.1 | 139.5 | Wake | 33,718 | 4,605 | 388.8 | 53.1 |
| Halifax | 3,122 | 804 | 567.6 | 146.2 | Warren | 546 | 77 | 274.6 | 38.7 |
| Harnett | 4,504 | 996 | 414.0 | 91.5 | Washington | 161 | 38 | 122.3 | 28.9 |
| Haywood | 5,367 | 977 | 936.2 | 170.4 | Watauga | 1,533 | 475 | 339.7 | 105.3 |
| Henderson | 5,053 | 1,569 | 484.5 | 150.4 | Wayne | 9,117 | 717 | 788.4 | 62.0 |
| Hertford | 381 | 203 | 160.4 | 85.5 | Wilkes | 3,000 | 1,887 | 445.3 | 280.1 |
| Hoke | 1,409 | 521 | 316.4 | 117.0 | Wilson | 4,530 | 1,226 | 575.9 | 155.9 |
| Hyde | 225 | 55 | 417.4 | 102.0 | Yadkin | 1,532 | 481 | 401.6 | 126.1 |
| Iredell | 7,164 | 1,545 | 461.6 | 99.6 | Yancey | 1,065 | 282 | 568.1 | 150.4 |
| Jackson | 1,466 | 377 | 393.1 | 101.1 | | | | | |
| Johnston | 7,914 | 1,421 | 486.7 | 87.4 | | | | | |

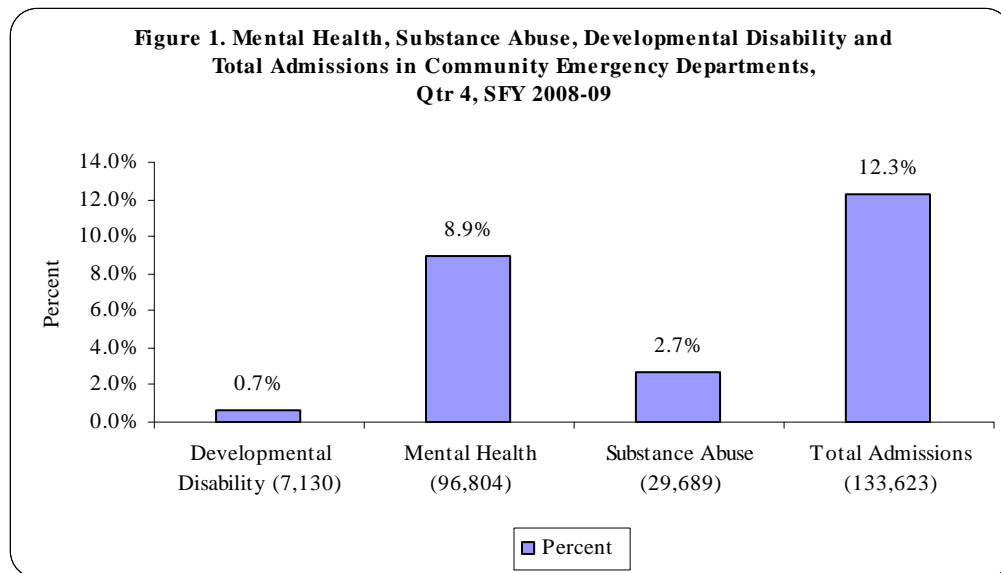
Source: NC DETECT, SFY 2008-09.

Table 3 shows the rate of admissions for individuals with any of the three disability diagnoses (mental health, substance abuse and developmental disability) as 'primary' or 'any listed' by the county of residence of the individual.

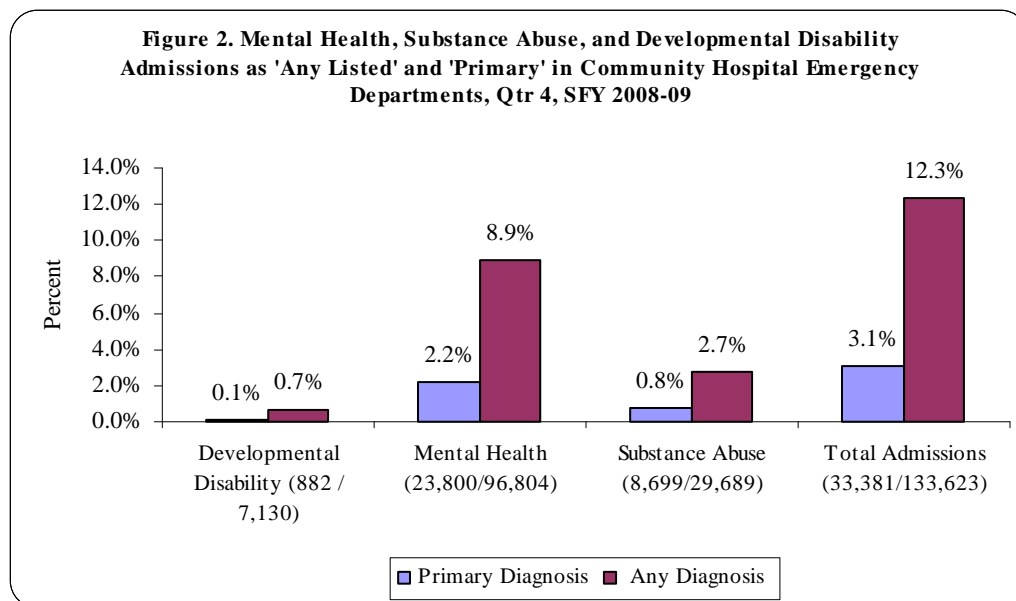
APPENDICES

Appendix A. Graphs and Tables for Quarter 4, 2008-09.

Data utilized to develop all graphs and tables presented in Appendix A has been obtained from the NC-DETECT System and covers the time frame of the 4th quarter of 2008-09.

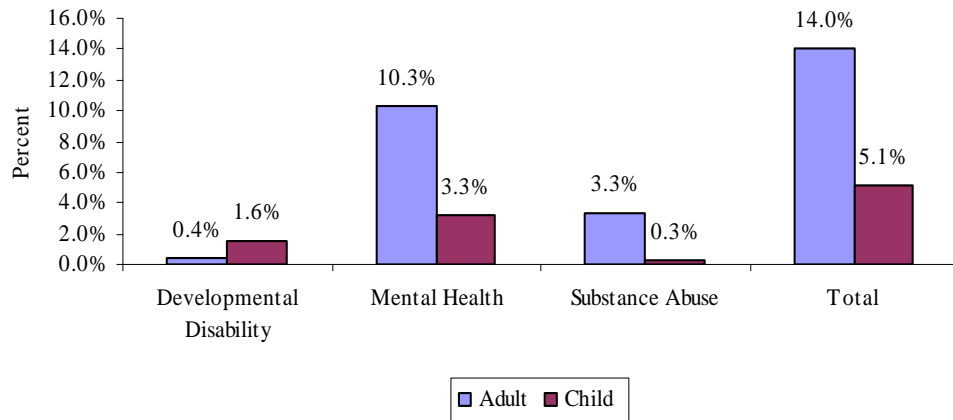


Source: NC DETECT, Qtr 4, SFY 2008-09



Source: NC DETECT, Qtr 4, SFY 2008-09

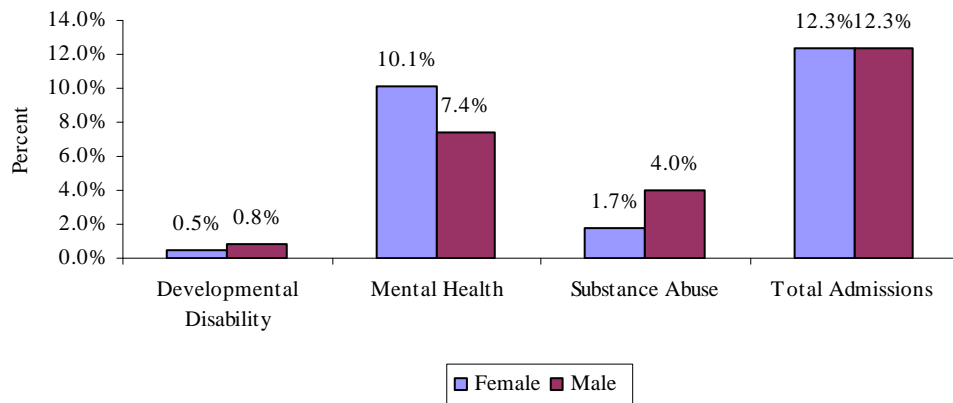
Figure 3. Mental Health, Substance Abuse, Developmental Disability and Total Admissions in Community Emergency Departments by Age group, Qtr 4, SFY 2008-09



Source: NC DETECT, Qtr 4, SFY 2008-09

Note: Percentages are calculated of all adult and all child admissions separately.

Figure 4. Mental Health, Substance Abuse, Developmental Disability and Total Admissions in Community Emergency Departments by Gender, Qtr 4, SFY 2008-09



Source: NC DETECT, Qtr 4, SFY 2008-09

Note: Percentages are calculated as a proportion of all gender specific emergency department admissions

Table 1. Disposition of Individuals with a Mental Health, Substance Abuse and Developmental Disabilities Diagnosis Seen within a Local Emergency Department, Qtr 4, SFY 2008-09

| Disability | Admitted* | ICU | Psych | Died | Dis-charged | AMA | Without Advice | Observe | Other* | Transfer* | Not Known | Grand Total |
|-------------------|------------------|------------|--------------|-------------|--------------------|------------|-----------------------|----------------|---------------|------------------|------------------|--------------------|
| Devel. Disability | 1,819 | 47 | 89 | 0 | 4,647 | 32 | 24 | 38 | 0 | 230 | 0 | 6,926 |
| Mental Health | 26,798 | 439 | 2,240 | 118 | 55,552 | 1,222 | 618 | 698 | 238 | 5,629 | 90 | 93,642 |
| Substance Abuse | 9,212 | 231 | 1,050 | 25 | 15,185 | 557 | 220 | 273 | 143 | 1,647 | 18 | 28,561 |
| Total Admissions | 37,829 | 717 | 3,379 | 143 | 75,384 | 1,811 | 862 | 1,009 | 381 | 7,506 | 108 | 129,129 |

Source: NC DETECT, SFY 08-09;

*Note- Disposition 'Admitted' includes hospital floor, isolation bed, CCU, operating room or diagnostic unit; 'Transferred' includes- transfer to prison, jail, general hospital, another type of institution or to home care ; 'Other' category is not clearly defined.

**Table 2. Behavioral Health and Developmental Disability Admissions in Community Emergency Departments
by Local Management Entity, Quarter 4, SFY 2008-09**

| LME Name | Developmental Disability | Rate of DD Admissions/ 10,000 | Mental Health | Rate of MH Admissions/10,000 | Substance Abuse | Rate of SA Admission/10,000 |
|-----------------------------|-------------------------------------|----------------------------------------------|--------------------------|-----------------------------------------|------------------------|----------------------------------------|
| Alamance-Caswell-Rockingham | 213 | 8.2 | 3,201 | 123.0 | 1,088 | 41.8 |
| Albemarle | 107 | 5.8 | 1,519 | 82.1 | 316 | 17.1 |
| Beacon Center | 110 | 4.5 | 1,453 | 59.3 | 483 | 19.7 |
| CenterPoint | 347 | 8.0 | 4,970 | 115.0 | 1,832 | 42.4 |
| Crossroads | 184 | 6.9 | 3,434 | 128.7 | 710 | 26.6 |
| Cumberland | 271 | 8.6 | 3,175 | 101.0 | 1,443 | 45.9 |
| Durham | 180 | 6.9 | 2,213 | 85.3 | 830 | 32.0 |
| ECBH | 294 | 7.4 | 3,236 | 81.1 | 882 | 22.1 |
| Eastpointe | 358 | 12.3 | 3,771 | 129.1 | 1,058 | 36.2 |
| Five County | 90 | 3.9 | 1,973 | 84.8 | 684 | 29.4 |
| Guilford | 135 | 2.9 | 2,504 | 53.4 | 1,113 | 23.7 |
| Johnston | 137 | 8.4 | 1,690 | 103.9 | 471 | 29.0 |
| Mental Health partners | 212 | 8.7 | 3,839 | 157.4 | 981 | 40.2 |
| Mecklenburg | 478 | 5.4 | 6,194 | 69.4 | 2,583 | 28.9 |
| Onslow-Carteret | 281 | 12.0 | 3,144 | 133.7 | 877 | 37.3 |
| Orange-Person-Chatham | 163 | 7.2 | 1,780 | 78.2 | 649 | 28.5 |
| Pathways | 424 | 11.3 | 6,621 | 176.2 | 1,599 | 42.6 |
| Piedmont | 585 | 8.2 | 7,637 | 106.4 | 1,988 | 27.7 |
| Sandhills Center | 301 | 5.6 | 4,757 | 88.7 | 1,541 | 28.7 |
| Smoky Mountain | 212 | 4.1 | 5,678 | 109.4 | 1,102 | 21.2 |
| Southeastern Center | 302 | 8.6 | 3,996 | 113.9 | 1,515 | 43.2 |
| Southeastern Regional | 248 | 9.8 | 3,620 | 142.4 | 1,373 | 54.0 |
| Wake | 709 | 8.2 | 6,980 | 80.5 | 1,810 | 20.9 |
| Western Highlands | 595 | 11.9 | 8,991 | 179.1 | 1,828 | 36.4 |
| Statewide | 7,097 | 7.7 | 96,376 | 104.3 | 29,368 | 31.8 |

Source: NC DETECT, SFY 2008-09

Note. LME level totals may differ from statewide estimates due to incompleteness of county level information.

Table 3. Emergency Department Admissions by Age Group and Local Management Entity, Quarter 4, SFY 2008-09

| LME Name | Developmental Disability | | | Mental Health | | | Substance Abuse | | | ED Admissions All Causes |
|---------------------------------|--------------------------|--------------|--------------|---------------|--------------|---------------|-----------------|------------|---------------|--------------------------|
| | Adult | Child | Total | Adult | Child | Total | Adult | Child | Total | |
| Alamance-Caswell-Rockingham | 102 | 111 | 213 | 2,993 | 208 | 3,201 | 1,073 | 15 | 1,088 | 34,338 |
| Albemarle | 63 | 44 | 107 | 1,408 | 111 | 1,519 | 316 | 0 | 316 | 19,759 |
| Beacon Center | 51 | 59 | 110 | 1,336 | 117 | 1,453 | 472 | 11 | 483 | 36,592 |
| CenterPoint | 185 | 162 | 347 | 4,636 | 334 | 4,970 | 1,794 | 38 | 1,832 | 50,254 |
| Crossroads | 107 | 77 | 184 | 3,237 | 197 | 3,434 | 699 | 11 | 710 | 36,026 |
| Cumberland | 143 | 128 | 271 | 2,854 | 321 | 3,175 | 1,431 | 12 | 1,443 | 32,535 |
| Durham | 93 | 87 | 180 | 2,062 | 151 | 2,213 | 830 | 0 | 830 | 30,104 |
| East Carolina Behavioral Health | 142 | 152 | 294 | 2,963 | 273 | 3,236 | 882 | 0 | 882 | 54,065 |
| Eastpointe | 153 | 205 | 358 | 3,402 | 369 | 3,771 | 1,038 | 20 | 1,058 | 39,308 |
| Five County | 45 | 45 | 90 | 1,874 | 99 | 1,973 | 684 | 0 | 684 | 33,351 |
| Guilford | 82 | 53 | 135 | 2,357 | 147 | 2,504 | 1,113 | 0 | 1,113 | 53,228 |
| Johnston | 71 | 66 | 137 | 1,566 | 124 | 1,690 | 471 | 0 | 471 | 18,294 |
| Mental Health Partners | 99 | 113 | 212 | 3,611 | 228 | 3,839 | 981 | 0 | 981 | 32,686 |
| Mecklenburg | 322 | 156 | 478 | 5,869 | 325 | 6,194 | 2,535 | 48 | 2,583 | 84,524 |
| Onslow-Carteret | 153 | 128 | 281 | 2,849 | 295 | 3,144 | 863 | 14 | 877 | 22,927 |
| Orange-Person-Chatham | 88 | 75 | 163 | 1,668 | 112 | 1,780 | 649 | 0 | 649 | 18,406 |
| Pathways | 206 | 218 | 424 | 6,127 | 494 | 6,621 | 1,567 | 32 | 1,599 | 58,268 |
| Piedmont | 287 | 298 | 585 | 7,032 | 605 | 7,637 | 1,937 | 51 | 1,988 | 79,452 |
| Sandhills Center | 147 | 154 | 301 | 4,406 | 351 | 4,757 | 1,509 | 32 | 1,541 | 69,251 |
| Smoky Mountain | 202 | 171 | 373 | 5,347 | 331 | 5,678 | 1,714 | 0 | 1,714 | 65,545 |
| Southeastern Center | 169 | 133 | 302 | 3,719 | 277 | 3,996 | 1,501 | 14 | 1,515 | 38,263 |
| Southeastern Regional | 119 | 129 | 248 | 3,304 | 316 | 3,620 | 1,350 | 23 | 1,373 | 43,510 |
| Wake | 392 | 317 | 709 | 6,450 | 530 | 6,980 | 1,761 | 49 | 1,810 | 73,885 |
| Western Highlands | 370 | 225 | 595 | 8,490 | 501 | 8,991 | 1,783 | 45 | 1,828 | 56,994 |
| Statewide | 3,791 | 3,306 | 7,097 | 89,560 | 6,816 | 96,376 | 28,953 | 415 | 29,368 | 1,081,565 |

Source: NC DETECT, Qtr 4, SFY 2008-09

Note. LME level totals may differ from statewide estimates due to incompleteness of county level information.

**Table 4. Mental Health, Substance Abuse and Developmental Disability Admissions in Local Emergency Departments
by County, Quarter 4, SFY 2008-09**

| County | Count | Rate per 10,000 | County | Count | Rate per 10,000 |
|---------------|--------------|------------------------|---------------|--------------|------------------------|
| Alamance | 2,512 | 173.1 | Jones | 160 | 154.3 |
| Alexander | 547 | 147.7 | Lee | 529 | 92.0 |
| Alleghany | 259 | 231.8 | Lenoir | 662 | 115.2 |
| Anson | 537 | 213.5 | Lincoln | 1,443 | 193.9 |
| Ashe | 145 | 55.1 | Macon | 278 | 62.6 |
| Avery | 232 | 126.4 | Madison | 429 | 125.3 |
| Beaufort | 582 | 125.8 | Martin | 604 | 292.6 |
| Bertie | 74 | 37.3 | McDowell | 769 | 324.2 |
| Bladen | 384 | 118.1 | Mecklenburg | 8,368 | 93.7 |
| Brunswick | 1,529 | 146.9 | Mitchell | 225 | 141.2 |
| Buncombe | 6,308 | 275.0 | Montgomery | 210 | 75.7 |
| Burke | 1,559 | 176.2 | Moore | 876 | 102.5 |
| Cabarrus | 3,105 | 182.1 | Nash | 354 | 37.7 |
| Caldwell | 1,371 | 171.9 | New Hanover | 3,088 | 158.7 |
| Camden | 74 | 75.2 | Northampton | 238 | 112.2 |
| Carteret | 1,731 | 271.3 | Onslow | 2,026 | 118.3 |
| Caswell | 168 | 71.5 | Orange | 1,208 | 93.6 |
| Catawba | 2,890 | 185.9 | Pamlico | 204 | 157.5 |
| Chatham | 378 | 62.4 | Pasquotank | 609 | 145.7 |
| Cherokee | 313 | 113.8 | Pender | 474 | 90.9 |
| Chowan | 56 | 37.9 | Perquimans | 144 | 110.4 |
| Clay | 78 | 73.8 | Person | 669 | 176.4 |
| Cleveland | 3,115 | 320.7 | Pitt | 488 | 31.5 |
| Columbus | 815 | 150.1 | Polk | 129 | 67.7 |
| Craven | 2,082 | 213.9 | Randolph | 1,564 | 111.3 |
| Cumberland | 4,217 | 134.1 | Richmond | 654 | 139.6 |
| Currituck | 117 | 48.0 | Robeson | 2,779 | 213.1 |
| Dare | 120 | 34.8 | Rockingham | 1,332 | 145.4 |
| Davidson | 2,000 | 126.9 | Rowan | 1,650 | 119.9 |

| County | Count | Rate per 10,000 | County | Count | Rate per 10,000 |
|-----------|-------|-----------------|------------------|---------------|-----------------|
| Davie | 387 | 93.6 | Rutherford | 1,246 | 198.1 |
| Duplin | 555 | 103.3 | Sampson | 1,139 | 174.6 |
| Durham | 2,891 | 111.4 | Scotland | 677 | 183.3 |
| Edgecombe | 203 | 39.6 | Stanly | 543 | 91.5 |
| Forsyth | 5,169 | 150.1 | Stokes | 715 | 154.1 |
| Franklin | 640 | 111.0 | Surry | 1,680 | 228.4 |
| Gaston | 3,183 | 155.9 | Swain | 211 | 149.7 |
| Gates | 27 | 22.3 | Transylvania | 329 | 105.7 |
| Graham | 98 | 119.8 | Tyrrell | * | * |
| Granville | 543 | 96.2 | Union | 1,889 | 98.2 |
| Greene | 132 | 62.2 | Vance | 350 | 80.2 |
| Guilford | 3,383 | 72.2 | Wake | 8,557 | 98.7 |
| Halifax | 792 | 144.0 | Warren | 128 | 64.4 |
| Harnett | 1,204 | 110.7 | Washington | 28 | 21.3 |
| Haywood | 1,417 | 247.2 | Watauga | 376 | 83.3 |
| Henderson | 1,291 | 123.8 | Wayne | 2,273 | 196.6 |
| Hertford | 38 | 16.0 | Wilkes | 600 | 89.1 |
| Hoke | 404 | 90.7 | Wilson | 1,161 | 147.6 |
| Hyde | 54 | 100.2 | Yadkin | 436 | 114.3 |
| Iredell | 1,849 | 119.1 | Yancey | 294 | 156.8 |
| Jackson | 356 | 95.5 | Statewide | 118690 | 128.4 |
| Johnston | 1,981 | 121.8 | | | |

Source: NC DETECT, Qtr 4, SFY 2008-09

Appendix B. List of Hospitals Contributing Data to NC DETECT

As of March 5, 2009 there are 111 of 112 (99%) hospitals submitting production-level data on a daily basis to NC DETECT.

| County | Town | Hospital |
|------------|----------------|-------------------|
| Alamance | Burlington | Alamance |
| Alexander | Taylorsville | Frye Alexander |
| Alleghany | Sparta | Alleghany |
| Anson | Wadesboro | Anson |
| Ashe | Jefferson | Ashe |
| Avery | Linville | Charles A. Cannon |
| Beaufort | Washington | Beaufort |
| Beaufort | Belhaven | Pungo |
| Bertie | Windsor | Bertie |
| Bladen | Elizabethtown | Bladen |
| Brunswick | Supply | Brunswick |
| Brunswick | Southport | Dosher |
| Buncombe | Asheville | Mission |
| Burke | Morganton | Grace |
| Burke | Valdese | Valdese |
| Cabarrus | Concord | Northeast |
| Caldwell | Lenoir | Caldwell |
| Carteret | Morehead City | Carteret |
| Catawba | Hickory | Catawba Valley |
| Catawba | Hickory | Frye |
| Chatham | Siler City | Chatham |
| Cherokee | Murphy | Murphy |
| Chowan | Edenton | Chowan |
| Cleveland | Shelby | Cleveland |
| Cleveland | Kings Mountain | Kings Mountain |
| Columbus | Whiteville | Columbus |
| Craven | New Bern | Craven |
| Cumberland | Fayetteville | Cape Fear Valley |
| Dare | Nags Head | Outer Banks |
| Davidson | Lexington | Lexington |
| Davidson | Thomasville | Thomasville |
| Davie | Mocksville | Davie |
| Duplin | Kenansville | Duplin |
| Durham | Durham | Duke |
| Durham | Durham | Durham Regional |
| Edgecombe | Tarboro | Heritage |
| Forsyth | Winston-Salem | Forsyth |
| Forsyth | Winston-Salem | NCBH |
| Franklin | Louisburg | Franklin |
| Gaston | Gastonia | Gaston |
| Granville | Oxford | Granville |
| Guilford | High Point | High Point |
| Guilford | Greensboro | Moses Cone |
| Guilford | Greensboro | Wesley Long |
| Halifax | Roanoke Rapids | Halifax |

| County | Town | Hospital |
|---------------|----------------|-----------------------------------|
| Halifax | Scotland Neck | Our Community |
| Harnett | Dunn | Betsy Johnson |
| Haywood | Clyde | Haywood |
| Henderson | Hendersonville | Margaret Pardee |
| Henderson | Fletcher | Park Ridge |
| Hertford | Ahoskie | Roanoke Chowan |
| Iredell | Statesville | Davis |
| Iredell | Statesville | Iredell |
| Iredell | Mooresville | Lake Norman |
| Jackson | Sylva | Harris |
| Johnston | Smithfield | Johnston |
| Lee | Sanford | Central Carolina |
| Lenoir | Kinston | Lenoir |
| Lincoln | Lincolnton | Lincoln |
| Macon | Franklin | Angel |
| Macon | Highlands | Highlands |
| Martin | Williamston | Martin |
| McDowell | Marion | McDowell |
| Mecklenburg | Charlotte | CMC |
| Mecklenburg | Charlotte | CMC Mercy |
| Mecklenburg | Charlotte | CMC Pineville |
| Mecklenburg | Charlotte | CMC Univiversity |
| Mecklenburg | Charlotte | Presbyterian |
| Mecklenburg | Huntersville | Presbyterian Huntersville |
| Mecklenburg | Matthews | Presbyterian Matthews |
| Mitchell | Spruce Pine | Blue Ridge Regional (Spruce Pine) |
| Montgomery | Troy | FHS Montgomery |
| Moore | Pinehurst | FHS Moore |
| Nash | Rocky Mount | Nash |
| New Hanover | Wilmington | New Hanover |
| Onslow | Jacksonville | Onslow |
| Orange | Chapel Hill | UNC Hospitals |
| Pasquotank | Elizabeth City | Albemarle |
| Pender | Burgaw | Pender |
| Person | Roxboro | Person |
| Pitt | Greenville | Pitt |
| Polk | Columbus | St Luke |
| Randolph | Asheboro | Randolph |
| Richmond | Rockingham | FHS Richmond |
| Richmond | Hamlet | Sandhills |
| Robeson | Lumberton | Southeastern |
| Rockingham | Reidsville | Annie Penn |
| Rockingham | Eden | Morehead |
| Rowan | Salisbury | Rowan |
| Rutherford | Rutherfordton | Rutherford |
| Sampson | Clinton | Sampson |
| Scotland | Laurinburg | Scotland |

| County | Town | Hospital |
|---------------|------------------|-----------------|
| Stanly | Albemarle | Stanly |
| Stokes | Danbury | Stokes Reynolds |
| Surry | Elkin | Hugh Chatham |
| Surry | Mt. Airy | Northern Surry |
| Swain | Bryson City | Swain |
| Transylvania | Brevard | Transylvania |
| Union | Monroe | Union |
| Vance | Henderson | Maria Parham |
| Wake | Raleigh | Duke Raleigh |
| Wake | Raleigh | Rex |
| Wake | Apex | WakeMed Apex |
| Wake | Cary | WakeMed Cary |
| Wake | Raleigh | WakeMed North |
| Wake | Raleigh | WakeMed Raleigh |
| Washington | Plymouth | Washington |
| Watauga | Blowing Rock | Blowing Rock |
| Watauga | Boone | Watauga |
| Wayne | Goldsboro | Wayne |
| Wilkes | North Wilkesboro | Wilkes |
| Wilson | Wilson | Wilson |
| Yadkin | Yadkinville | Hoots |

Appendix C: Data Source

What is NC DETECT?

The North Carolina Disease Event Tracking and Epidemiologic Collection Tool (NC DETECT) is the Web-based early event detection and timely public health surveillance system in the North Carolina Public Health Information Network. NC DETECT uses the CDC's CUSUM algorithms from the Early Aberration Reporting System (EARS) to monitor several data sources for suspicious patterns. The reporting system also provides broader public health surveillance reports for emergency department visits related to hurricanes, injuries, asthma, vaccine-preventable diseases, occupational health and others.

Who develops and manages NC DETECT?

Staff at the UNC Department of Emergency Medicine (UNC DEM), under contract to the North Carolina Division of Public Health (NC DPH) develop and manage NC DETECT. UNC DEM collaborates with NC DPH on all aspects of NC DETECT development.

How is NC DETECT related to NCHESS?

Data from the North Carolina Hospital Emergency Surveillance System (NCHESS) are loaded into NC DETECT (which was formerly known as the North Carolina Bioterrorism and Emerging Infection Prevention System, NC BEIPS). The NC DETECT team at the UNC Department of Emergency Medicine monitors the quality of the NCHESS data and work with hospitals, their vendors and the North Carolina Hospital Association (NCHA) to ensure NC DETECT users have access to the most accurate data possible.

How have North Carolinians benefited from NC DETECT?

With NC DETECT, public health officials at the local, regional and state levels are able to monitor a variety of important public health issues in a secure and timely fashion, including influenza, post-hurricane health issues, injury and violence, and vaccine-preventable disease surveillance. For example, NC DETECT users have monitored illness and injury effects after hurricanes Isabel and Ophelia, analyzed ED use at select hospitals by Katrina evacuees, and uncovered unreported cases of tuberculosis. Before NC DETECT, similar surveillance was either simply not performed, relied on manual, redundant data entry, or had a considerable time lag. A summary of specific [NC DETECT outcomes](#) is also available. Since NC DETECT is designed to uncover suspicious patterns of illness in both human and animal populations, it is a key tool in the early detection of emerging infectious diseases, such as new strains of influenza.

Who pays for NC DETECT?

NC DETECT is funded from federal bioterrorism grants administered through the Centers for Disease Control and Prevention and disbursed by the North Carolina Department of Health and Human Services, Division of Public Health.

For more Information: ncdetect@listserv.med.unc.edu, (919) 843-2361

Appendix D: ICD-9 codes

ICD-9 codes that are used to categorize each of the three disabilities are listed below. The **International Statistical Classification of Diseases and Related Health Problems** (most commonly known by the abbreviation **ICD**) provides codes to classify [diseases](#) and a wide variety of signs, symptoms, abnormal findings, complaints, social circumstances and external causes of injury or disease.

| ICD code grouping | Description of category |
|-----------------------------------|---------------------------------------------------|
| Mental Health | |
| 290.00- 290.99 | Dementia/Delusional psychosis |
| 293.00-293.99 | Organic delirium/delusions |
| 294.00-294.99 | Dementia/Organic brain syndrome |
| 295.00-295.99 | Schizophrenia |
| 296.00-296.99 | Maniac depressive disorder |
| 297.00-297.99 | Paranoia |
| 298.00-298.99 | Unspecified psychosis |
| 299.00-299.99 | Childhood psychosis |
| 300.00-300.99 | Neurotic disorders |
| 301.00-301.99 | Personality disorder |
| 302.00-302.99 | Psychosexual/zoophilia /pedophilia /homosexuality |
| 306.00-306.99 | Physiological malfunction from mental disorders |
| 307.00-307.99 | Sleeping order/eating disorder |
| 308.00-308.99 | Predominant emotional disturbance |
| 309.00-309.99 | Brief/prolonged depressive reaction |
| 310.00-312.99 | Conduct disorder |
| 313.00-314.99 | Emotional disturbance of childhood or adolescence |
| 799.9 | Other MH /unknown/unspecified |
| 995.50-995.89 | Child/adult abuse/neglect |
| Substance Use and Abuse | |
| 292.00-292.99 | Drug induced psychosis |
| 304.00-304.99 | Drug dependence |
| 305.20-305.99 | Drug abuse |
| 291.00-291.99 | Alcohol-related psychosis |
| 303.00-303.99 | Alcohol dependence |
| 305.00-305.03 | Alcohol abuse |
| Developmental Disabilities | |
| 315.00-315.99 | Developmental disabilities |
| V79.0-V79.9 | Range of DD early childhood/DD- unspecified |
| 314.01 | Hyperkinesias with DD |
| 740-759 | Congenital anomalies |
| 317.00 | Mild mental retardation |
| 318.00 | Moderate mental retardation |
| 318.10 | Severe mental retardation |
| 318.20 | Profound mental retardation |
| 319.00 | Mental retardation, severity unspecified |

The DMH/DD/SAS *Mental Health, Developmental Disabilities and Substance Abuse Related Admissions in Community Emergency Departments, Quarterly Report* is published four times a year.

All reports are available on the Division's website:

<http://www.ncdhhs.gov/mhddsas/statspublications/reports/>

Questions and feedback should be directed to:
NC DMH/DD/SAS Quality Management Team

ContactDMHQuality@ncmail.net

Or

(919)-733-0696

